



User Manual

Microdigital IP cameras
with built-in Ivideon software

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Introduction to Ivideon

What is Ivideon about?

Ivideon is a cloud-based video surveillance service which allows you to gain access to your surveillance cameras over the Internet. With Ivideon you will be able to build your own video surveillance system in less than 10 minutes — and see what is happening in your office or at home over the Internet.

Ivideon features allow you to:

- Share access to your cameras with your employees or friends;
- Embed live video feed from your camera into your blog or website;
- Utilize motion detection to record events instead of empty rooms;
- Mark your surveillance cameras on Google Maps;
- Do lots of other things no other video surveillance system can give you.

Why use an IP camera with built-in Ivideon software?

An IP camera with built-in Ivideon software works with Ivideon cloud by itself — there is no need to connect it to computer. It is an independent element of your video surveillance system. You just need to attach it to your Ivideon account — and you will be able to access it from anywhere over the Internet.

How to access your surveillance cameras?

If you have attached your camera to your Ivideon account, you will be able to access it anywhere and any way you like:

in your browser

— via your [personal account on our website](#).

on an iPhone®, iPad® or iPod®

— using [Ivideon for iOS](#).

on Android smartphones and tablets

— using [Ivideon for Android](#).

on other mobile devices and cell phones

— via the [mobile version of our website](#).

on your PC

— using [Ivideon Client](#).

Quick Start

To access your Microdigital IP-camera over the Internet you need to attach it to your Ivideon account. If do not have an Ivideon account yet, please visit www.ivideon.com and sign up.

- 1 First you have to prepare the camera. Connect it to your router with an Ethernet cable. Get ready to plug the power cable into the camera.
- 2 Log into your account at www.ivideon.com.
- 3 Select **My cameras** and click **Add an IP-camera with built-in Ivideon software**. Follow the instructions.


If your IP camera does not have built-in Ivideon software, please see **Installing Ivideon on a Microdigital IP camera**.

If for some reason the attachments was not successful or if you need to reattach the camera, follow the instructions in **Attaching an IP camera to your Ivideon account**.

Installing Ivideon on a Microdigital IP camera

Follow these steps if your camera firmware does not support Ivideon or if you want to install a firmware update.

If your camera firmware already includes Ivideon, see **Attaching an IP camera to your Ivideon account**.

- 1 Connect your camera to computer or router with an Ethernet cable (we do not recommend to update camera firmware via Wi-Fi, as this could lead to serious malfunction).
- 2 Install and launch the **MICRODIGITAL IP Installer** (you can find it on the CD supplied with the camera).
- 3 Press the **Search product**  icon. Wait until the search is finished. Your camera should appear in the list.
- 4 Right-click on your camera and click **Go Product Homepage**. The camera web interface will be opened in your browser.
- 5 Click on **Admin** link and enter login and password (by default, both are **root**).
- 6 In the side menu click **Utilites** → **System update**.
- 7 In the list of system update options find **All (Firmware, RAM disk, System, Web) Update** and press **Start**, then **Ok**.
- 8 You will be prompted to upload four firmware files. For each request press the **Browse** button and select the appropriate file (a_ker_ds, a_rfs_ds, a_sys_ds, a_web_ds), then press **Next**.
- 9 After you select all four files, press **Next** again and wait until the update process is finished.
- 10 A window appears. Press **reboot** button.


Attaching an IP camera to your Ivideon account

To quickly attach an IP camera with built-in Ivideon software to your Ivideon account, see the **Quick Start** section.

If for some reason the attachments was not successful or if you need to reattach the camera, follow the instructions below.

- 1 If you don't have an Ivideon account, sign up at www.ivideon.com.
- 2 Connect your camera to computer or router with an Ethernet cable.

If want to you use Wi-Fi to access the camera, you should plug the USB Wi-Fi token into the camera first and then switch it on.

- 3 Install and launch the **MICRODIGITAL IP Installer** (you can find it on the CD supplied with the camera).
- 4 Press the **Search product**  icon. Wait until the search is finished. Your camera should appear in the list.
- 5 Right-click on your camera and click **Setup product IP**.
- 6 If you chose Ethernet to connect your camera to computer, proceed to step 13. Otherwise a window will appear. Select **DHCP** for network connection type.
- 7 Press **Scan AP** and select your Wi-Fi network.
- 8 In **Auth Mode** select the encryption method used in your Wi-Fi network.
- 9 Enter your Wi-Fi password into the **WPAPSK** field.

- 10 Enter **root** into **Admin Password** field and press **Set**.
- 11 Wait until **IP Installer** finishes searching cameras. Switch your camera off and then on again.
- 12 Wait until the camera restarts and repeat the search. Right-click on your camera and click **Go Product Homepage**.
- 13 Click on **Admin** link and enter login and password (by default, both are **root**).
- 14 In the side menu click **Ivideon**.
- 15 The Ivideon configuration page appears. Locate the **Attach Camera to Ivideon Account** field group. Enter your **e-mail** (with which you have signed up on Ivideon website) and a **camera name**, then press **Apply**.

Camera Settings

Camera Web Interface

Camera configuration is done via web interface. To access it, open the camera IP address in your browser. If you do not remember your camera IP, use the **IP Installer** application. Then click **Admin** in the top menu.

The default login and password for the camera web interface are **root / root**.

Motion Detector

Ivideon starts video archive recording only when a motion is detected. Therefore if motion detector is disabled, the video feed will not be archived.

To configure the motion detector, follow these steps:

- 1 Open the camera web interface.
In the side menu click **Device Configuration** → **Camera & Motion** → **Motion Detection**.
- 2 On the **Motion Detection** page enable the **Motion Detection** flag.
- 3 Configure the **Motion Detection Area** and **Motion Sensitivity**.
- 4 Click the **Apply** button.

Sound Recording

If your camera has a built-in microphone, you may need to enable it.

- 1 Open the camera web interface.
In the side menu click **Device Configuration** → **Camera & Motion**.
- 2 Enable the **Audio** flag and press **Apply**.

Video

If you use your camera indoors, you may notice a “wave” effect on the picture. To remove it, follow these steps:

- 1 Open the camera web interface.
In the side menu click **Device Configuration** → **Camera & Motion** → **Camera Control**.
- 2 Switch **Power Frequency** to **50Hz** and press **Apply**.

Storing video archive on a microSD card

To store vide archive on a SD card, you will need 1 - 32 GB microSD.

To configure the video archive, follow these steps:

- 1 Open the camera web interface.
In the side menu click **Ivideon** and press **Stop Ivideon Service** button.
- 2 Insert the microSD card into camera.
- 3 In the side menu click **Recording Configuration** → **SD Configuration** → **SD Status & Format**.
- 4 Select **1st SD** and press **Partition and Format**.
Wait until the card formatting will be finished.
- 5 In the side menu click Ivideon **Ivideon** and in the **Configure Video Archive** section enable the **Enable Video Archive** flag.
- 6 Press the **Start Ivideon Service** button.

Attention! If you need to take the SD card out of the camera, you need to stop Ivideon Service first (see step 1 above). Do not take the SD card out of the working camera, as it will lead to camera memory overflow and the camera may be permanently broken.

Internet access via Proxy Server

If you have to use a proxy server to access Internet, select **Ivideon** in the side menu and enter the proxy URL in the **Configure HTTP Proxy** section.

Additional Info

By default camera settings are set to optimal values. We do not recommend to change the settings not mentioned in this document as it may lead to camera not being able to work with Ivideon.

Additional information about camera configuration can be found the camera manual supplied with the camera on a CD.



If you have questions about Ivideon, please contact our tech support at support@ivideon.com.